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	DOD 49 RPV DATE 21 JULY 80 BY 457447 DRIG 10:4P 056 PH 56 TYPE 01 DRIG CLASS 5 PAGES 7 REV CLASS C JUST 22 NEXT REV 2010 AUTH: HR 73-2
Referen	nce: Contract RD-113
Subject	: Task III Program Report
Gentlemen:	/
The present status of customer testing. While acceptable, there have been	s of this sequence camera prototype is that current performance may be considered as many problems related to the prototype
The present status of customer testing. While acceptable, there have been development which at presen and resolution of further obj The original object in various phases of progres tional features and associate relationship of these added f plexity until their obvious ap is felt that these procedures of a complex photographic sy state of the art features were	current performance may be considered as many problems related to the prototype at should receive some pertinent discussion

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similar fashion the desirable factors of ease of maintenance or repair have in our opinion become unnecessarily complex.

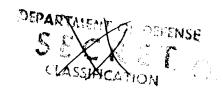
Five additional systems are as yet to be produced subsequent to approval of the prototype. Further, some desirable changes and additions to this capability have been discussed and are to be incorporated in the remaining quantity.

Unfortunately too, the problems encountered in final phase of the prototype system also involved rather extensive rework and tests which have resulted in this time as an unanticipated expenditure. In view of this and the changes planned at this time, we are taking this opportunity of submitting a detailed cost review for each category for the sake of clarity. Under the heading of additional work, we include, (1) Basic Contract and (2) Change in Scope. All work indicated in the column "Basic Contract" are shown in costs as less fee. By the same token overrun costs are similarly computed.

We trust that you will find this satisfactory. We shall await your early reply as to further procedures.

	Sincerely yours,
HRG:aw Encl.	

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TASK III

COMPLENTIAL

1) ITEMIZED LIST OF ADDITIONAL WORK

		BASIC CONTRACT	Scope Change
A)	DATA RECORDING		X
в)	END OF DAY INDICATOR		X
c)	NEW TIMER / BURST CONTROL	X	
۵)	APERTURE CONTROL REDESIGN	X	
ε)	GENERAL DESIGN SIMPLIFICATION	X	
F)	BATTERY PACK REDESIGN		X
G)	NEW OPTICAL BORESIGHT		X
н)	AUTOMATIC BORESIGHT CONTROL	X	
ι)	RANGE FINDER		X
J)	BATTERY CHARGER DESIGN		X
ĸ)	NEW LENS ADAPTERS		X
L)	MAGAZINE REDESIGN (200 FEET)	X	
м)	PROVISION FOR NIGHT CAPABILITY		X

2) DESCRIPTION

- A) THE DATA RECORDING CONTEMPLATED WILL UTILIZE THE OUTPUT OF TIMER (C) TO PROVIDE A PULSE LIGHT RECORDING OF ONE HOUR INTERVALS ON A CODED BASIS RATHER THAN DIRECT READING. THE RECORDED "DOT" WILL BE PLACED EITHER IN THE PERFORATE AREA OR BETWEEN FRAMES BY MEANS OF OPTICAL PIPING OF LIGHT.
- B) THE END OF DAY INDICATOR WILL ALSO BE PROVIDED BY MEANS OF ANOTHER SIMILAR DOT RECORDING INTERCONNECTED WITH THE LOW LEVEL CUTOFF SWITCH AND ARRANGED TO OPERATE WITH THE EXPOSURE CONTROL CIRCUIT. THIS RECORDING WILL INDICATE AT WHAT TIME THE EXPOSURE CONTROL CIRCUIT WENT INTO STANDBY DUE TO LOW LIGHT LEVEL CONDITION.
- C) THE NEW TIMER AND BURST CONTROL MECHANISM IS TO BE REDESIGNED USING

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This assembly will not only be indicative of lowered complexity but in addition provide a marked saving in power requirement. The prototype unit now operates continuously at 50 mils drain, whereas the new design can be made to operate at approximately 4 mils drain. The new design would offer simpler calibration and package replacement features.

- D) THE APERTURE CONTROL REDESIGN INVOLVES SYSTEM SIMPLIFICATION AND REDUCED POWER DRAIN. THE PRESENT 4 POWER LEAD SYSTEM WOULD INVOLVE REDESIGN TO A 2 LEAD TAP SYSTEM, USING SEALED COMPONENTS TO INCREASE RELIABILITY AND MAINTAIN THE PRESENT LOW POWER DRAIN. TO REDUCE THE PRESENT MECHANICAL FRONT END PROBLEMS, CERTAIN ELECTRONIC PARTS ARE TO BE REPOSITIONED FOR EASE OF ASSEMBLY, MAINTENANCE, AND CALIBRATION.
- E) THE DESIGN SIMPLIFICATION REFERRED TO IS THAT RELATED TO A COMPONENT DESIGN REVIEW DIRECTED TO REDUCE COMPLEXITY AND RAISE RELIABILITY OF OTHER EXISTING ITEMS NOT INCLUDED IN THIS LISTING, SUCH AS LENS LOCK, LENS EXTENSION SUPPORT, TRANSPORT, SHUTTER DRIVE, MAGAZINE REGISTRATION, ETC.
- F) THE DESIGN OF A BATTERY PACK TO SUITABLY CONTAIN A BATTERY, RECEIVER, ANTENNA, SWITCHES, AND CORD CONNECTORS FOR ROUGH FIELD NANDLING. EXTERNAL PROVISIONS FOR BATTERY RECHARGING ARE ENVISIONED.
- G) A NEW OPTICAL BORESIGHT TO PROVIDE HIGH POWER MAGNIFICATION FOR PRECISION FOCUSSING, COMPLETE WITH SUITABLE RETICLE AND REFERENCE GLASS PLATE.
- H) REDESIGN OF THE BORESIGHT CONTROL TO ELIMINATE THE FINGER ACTIVATED DE-VICE PRESENT ON THE PROTOTYPE. AN ADDITIONAL POSITION ON THE SELECTOR SWITCH WILL ALLOW FOR "BORESIGHT" TO OCCUR AUTOMATICALLY. ANY CHANGE FROM THIS POSITION WILL RESET THE CAMERA TO THE SELECTED OPERATING MODE.
- 1) THE RANGEFINDER IS PRESENTLY CONTEMPLATED AS A PURCHASED PART TO WHICH ADDITIONAL ENGRAVING IS TO BE ADDED. GENERALLY NO CALIBRATION IS SUPPLIED BETWEEN 300 FEET TO INFINITY, BUT FOR PURPOSES OF ITS USE WITH THIS SYSTEM IT IS CONSIDERED NECESSARY.
- J) THE BATTERY CHARGER CONTEMPLATED REPRESENTS A MODIFICATION OF A COMMER-CIAL UNIT PRESENTLY AVAILABLE, AND SUITABLE FOR NICKEL, CADMIUM, AND SILVER CELL BATTERY TYPES. THE CONVERSION RELATES TO PROVIDING A VOLTAGE SENSING RATHER THAN TIME BASIS FOR CHARGING OF BATTERIES.
- K) NEW LENS ADAPTERS HAVE BEEN REQUESTED FOR CONSIDERATION TO REPLACE THE STANDARD EYEMO LENS MOUNTS. IT IS RECOMMENDED THAT THIS CONVERSION BE CONSIDERED ONLY IN THE SLEEVE MATERIAL RATHER THAN IN THE ACTUAL SLEEVE REDESIGN, DUE TO RESTRICTED AREA PRESENTLY AVAILABLE ON THE CAMERA LENS BOARD.

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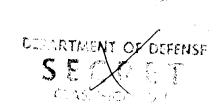
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TERIOR REDESIGN TO MAKE IT CONFORM TO THE 400° DISPLACEMENT SPOOL MAGAZINE IS THEREFORE PLANNED.

M) THE PROVISION FOR A NIGHT CAPABILITY STEMS PRIMARILY FROM THE LATEST FILM DEVELOPMENTS WHICH CAN NOW PROVIDE EXTREMELY FAST, REASONABLY FINE GRAIN EMULSIONS. THE NIGHT CAPABILITY REFERRED TO WOULD BE MANIFEST IN A TWO-POSITION SWITCH WHICH WOULD PROVIDE FOR CONTINUOUS OPERATION OF THE CAMERA SYSTEM AFTER THE LOW LIGHT LEVEL STANDBY CONDITION HAD BEEN REACHED. AT THIS SETTING THE SHUTTER WOULD OPERATE AT SLOWEST SETTING (1/50) WITH LENS APERTURE AT MAXIMUM SETTING USING THE A S A 800 FILM INDEX POSITION.

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TASK III

CONDEMINE

4. Delivery Schedule:

Subsequent to the date of your notification to proceed, the final five (5) systems can be delivered in not more than seven (7) months time.

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